0590
0529

#4

ENTERED

```
RAW SEQUENCE LISTING            DATE: 06/03/2002
PATENT APPLICATION:  US/10/044,844      TIME: 12:59:15

Input Set : A:\EP.txt
Output Set: N:\CRF3\06032002\J044844.raw
```

```
          SEQUENCE LISTING
   3 (1) GENERAL INFORMATION:
   5      (i) APPLICANT: Victoria, Edward J.
   6                     Marquis, David M.
   7                     Jones, David S.
   8                     Yu, Lin
  10     (ii) TITLE OF INVENTION: aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES THEREOF AND
  11                              METHODS OF TREATMENT FOR aPL ANTIBODY-MEDIATED
PATHOLOGIES
  13    (iii) NUMBER OF SEQUENCES: 226
  15     (iv) CORRESPONDENCE ADDRESS:
  16          (A) ADDRESSEE: MORRISON & FOERSTER LLP
  17          (B) STREET: 755 PAGE MILL ROAD
  18          (C) CITY: PALO ALTO
  19          (D) STATE: CA
  20          (E) COUNTRY: USA
  21          (F) ZIP: 94304-1018
  23      (v) COMPUTER READABLE FORM:
  24          (A) MEDIUM TYPE: Floppy disk
  25          (B) COMPUTER: IBM PC compatible
  26          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  27          (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
  29     (vi) CURRENT APPLICATION DATA:
C--> 30          (A) APPLICATION NUMBER: US/10/044,844
C--> 31          (B) FILING DATE: 10-Jan-2002
  32          (C) CLASSIFICATION:
  34   (viii) ATTORNEY/AGENT INFORMATION:
  35          (A) NAME: CATHERINE M. POLIZZI
  36          (B) REGISTRATION NUMBER: 40,130
  37          (C) REFERENCE/DOCKET NUMBER: 25231-20061.03
  39     (ix) TELECOMMUNICATION INFORMATION:
  40          (A) TELEPHONE: (650) 813-5600
  41          (B) TELEFAX: (650) 494-0792
  42          (C) TELEX: 706141
  44 (2) INFORMATION FOR SEQ ID NO: 1:
  46      (i) SEQUENCE CHARACTERISTICS:
  47          (A) LENGTH: 12 amino acids
  48          (B) TYPE: amino acid
  49          (C) STRANDEDNESS: single
  50          (D) TOPOLOGY: linear
  52     (ii) MOLECULE TYPE: peptide
  54     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
  56      Pro Cys Leu Leu Leu Ala Pro Asp Arg Cys Pro Gly
  57      1               5                   10
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 59 (2) INFORMATION FOR SEQ ID NO: 2:
 61     (i) SEQUENCE CHARACTERISTICS:
 62          (A) LENGTH: 13 amino acids
 63          (B) TYPE: amino acid
 64          (C) STRANDEDNESS: single
 65          (D) TOPOLOGY: linear
 67    (ii) MOLECULE TYPE: peptide
 69    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 71     Gly Pro Cys Leu Leu Leu Ala Pro Asp Arg Cys Pro Gly
 72     1               5                   10
 74 (2) INFORMATION FOR SEQ ID NO: 3:
 76     (i) SEQUENCE CHARACTERISTICS:
 77          (A) LENGTH: 14 amino acids
 78          (B) TYPE: amino acid
 79          (C) STRANDEDNESS: single
 80          (D) TOPOLOGY: linear
 82    (ii) MOLECULE TYPE: peptide
 84    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 86     Ala Gly Pro Cys Leu Leu Leu Ala Pro Asp Arg Cys Pro Gly
 87     1               5                   10
 89 (2) INFORMATION FOR SEQ ID NO: 4:
 91     (i) SEQUENCE CHARACTERISTICS:
 92          (A) LENGTH: 14 amino acids
 93          (B) TYPE: amino acid
 94          (C) STRANDEDNESS: single
 95          (D) TOPOLOGY: linear
 97    (ii) MOLECULE TYPE: peptide
 99    (ix) FEATURE:
100          (A) NAME/KEY: Modified-site
101          (B) LOCATION: 3
102          (D) OTHER INFORMATION: /product= "OTHER"
103 /label= MeP; /note= "alpha-methyl proline."
105    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 107     Ala Gly Xaa Cys Leu Leu Leu Ala Pro Asp Arg Cys Pro Gly
108     1               5                   10
110 (2) INFORMATION FOR SEQ ID NO: 5:
112     (i) SEQUENCE CHARACTERISTICS:
113          (A) LENGTH: 14 amino acids
114          (B) TYPE: amino acid
115          (C) STRANDEDNESS: single
116          (D) TOPOLOGY: linear
118    (ii) MOLECULE TYPE: peptide
120    (ix) FEATURE:
121          (A) NAME/KEY: Modified-site
122          (B) LOCATION: 9
123          (D) OTHER INFORMATION: /product= "OTHER"
124 /label= MeP
125 /note= "alpha-methyl proline"
127    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
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              RAW SEQUENCE LISTING              DATE: 06/03/2002
              PATENT APPLICATION:  US/10/044,844    TIME: 12:59:15

              Input Set : A:\EP.txt
              Output Set: N:\CRF3\06032002\J044844.raw

W--> 129     Ala Gly Pro Cys Leu Leu Leu Ala Xaa Asp Arg Cys Pro Gly
     130     1             5                 10
     132 (2) INFORMATION FOR SEQ ID NO: 6:
     134     (i) SEQUENCE CHARACTERISTICS:
     135         (A) LENGTH: 14 amino acids
     136         (B) TYPE: amino acid
     137         (C) STRANDEDNESS: single
     138         (D) TOPOLOGY: linear
     140    (ii) MOLECULE TYPE: peptide
     142    (ix) FEATURE:
     143         (A) NAME/KEY: Modified-site
     144         (B) LOCATION: group(3, 9)
     145         (D) OTHER INFORMATION: /product= "OTHER"
     146 /label= MeP
     147 /note= "alpha-methyl proline"
     149    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 151     Ala Gly Xaa Cys Leu Leu Leu Ala Xaa Asp Arg Cys Pro Gly
     152     1             5                 10
     154 (2) INFORMATION FOR SEQ ID NO: 7:
     156     (i) SEQUENCE CHARACTERISTICS:
     157         (A) LENGTH: 14 amino acids
     158         (B) TYPE: amino acid
     159         (C) STRANDEDNESS: single
     160         (D) TOPOLOGY: linear
     162    (ii) MOLECULE TYPE: peptide
     164    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     166     Ala Gly Pro Cys Leu Leu Leu Ala Pro Asp Arg Cys Pro Gly
     167     1             5                 10
     169 (2) INFORMATION FOR SEQ ID NO: 8:
     171     (i) SEQUENCE CHARACTERISTICS:
     172         (A) LENGTH: 4 amino acids
     173         (B) TYPE: amino acid
     174         (C) STRANDEDNESS: single
     175         (D) TOPOLOGY: linear
     177    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
     179     Gly Ser Gly Ser
     180     1
     182 (2) INFORMATION FOR SEQ ID NO: 9:
     184     (i) SEQUENCE CHARACTERISTICS:
     185         (A) LENGTH: 9 amino acids
     186         (B) TYPE: amino acid
     187         (C) STRANDEDNESS: single
     188         (D) TOPOLOGY: linear
     190    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
     192     Cys Leu Leu Leu Ala Pro Asp Arg Cys
     193     1             5
     195 (2) INFORMATION FOR SEQ ID NO: 10:
     197     (i) SEQUENCE CHARACTERISTICS:
     198         (A) LENGTH: 9 amino acids
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PATENT APPLICATION: US/10/044,844   TIME: 12:59:15

Input Set : A:\EP.txt
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```
199            (B) TYPE: amino acid
200            (C) STRANDEDNESS: single
201            (D) TOPOLOGY: linear
203      (vii) IMMEDIATE SOURCE:
204            (A) LIBRARY: xy
205            (B) CLONE: 2101
207       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
209       Cys Asn Ile Leu Val Leu Asp Arg Cys
210       1               · 5
212 (2) INFORMATION FOR SEQ ID NO: 11:
214        (i) SEQUENCE CHARACTERISTICS:
215            (A) LENGTH: 9 amino acids
216            (B) TYPE: amino acid
217            (C) STRANDEDNESS: single
218            (D) TOPOLOGY: linear
220      (vii) IMMEDIATE SOURCE:
221            (A) LIBRARY: xyz
222            (B) CLONE: 5A12
224       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
226       Cys Leu Ile Leu Ala Pro Asp Arg Cys
227       1               5
229 (2) INFORMATION FOR SEQ ID NO: 12:
231        (i) SEQUENCE CHARACTERISTICS:
232            (A) LENGTH: 9 amino acids
233            (B) TYPE: amino acid
234            (C) STRANDEDNESS: single
235            (D) TOPOLOGY: linear
237      (vii) IMMEDIATE SOURCE:
238            (A) LIBRARY: xyz
239            (B) CLONE: 2D7
241       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
243       Cys Leu Leu Leu Ala Pro Asp Arg Cys
244       1               5
246 (2) INFORMATION FOR SEQ ID NO: 13:
248        (i) SEQUENCE CHARACTERISTICS:
249            (A) LENGTH: 9 amino acids
250            (B) TYPE: amino acid
251            (C) STRANDEDNESS: single
252            (D) TOPOLOGY: linear
254      (vii) IMMEDIATE SOURCE:
255            (A) LIBRARY: xyz
256            (B) CLONE: 3B6
258       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
260       Cys Leu Val Leu Ala Leu Asp Arg Cys
261       1               5
263 (2) INFORMATION FOR SEQ ID NO: 14:
265        (i) SEQUENCE CHARACTERISTICS:
266            (A) LENGTH: 9 amino acids
267            (B) TYPE: amino acid
```

RAW SEQUENCE LISTING   DATE: 06/03/2002
PATENT APPLICATION: US/10/044,844   TIME: 12:59:15

Input Set : A:\EP.txt
Output Set: N:\CRF3\06032002\J044844.raw

```
268              (C) STRANDEDNESS: single
269              (D) TOPOLOGY: linear
271      (vii) IMMEDIATE SOURCE:
272              (A) LIBRARY: xyz
273              (B) CLONE: 3E4
275       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
277       Cys Leu Phe Val Ala Leu Asp Arg Cys
278       1               5
280 (2) INFORMATION FOR SEQ ID NO: 15:
282       (i) SEQUENCE CHARACTERISTICS:
283              (A) LENGTH: 9 amino acids
284              (B) TYPE: amino acid
285              (C) STRANDEDNESS: single
286              (D) TOPOLOGY: linear
288      (vii) IMMEDIATE SOURCE:
289              (A) LIBRARY: xyz
290              (B) CLONE: 3E7
292       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
294       Cys Ile Leu Leu Ala His Asp Arg Cys
295       1               5
297 (2) INFORMATION FOR SEQ ID NO: 16:
299       (i) SEQUENCE CHARACTERISTICS:
300              (A) LENGTH: 9 amino acids
301              (B) TYPE: amino acid
302              (C) STRANDEDNESS: single
303              (D) TOPOLOGY: linear
305      (vii) IMMEDIATE SOURCE:
306              (A) LIBRARY: xyz
307              (B) CLONE: 2H1
309       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
311       Cys Ile Ile Leu Ala Pro Gly Arg Cys
312       1               5
314 (2) INFORMATION FOR SEQ ID NO: 17:
316       (i) SEQUENCE CHARACTERISTICS:
317              (A) LENGTH: 9 amino acids
318              (B) TYPE: amino acid
319              (C) STRANDEDNESS: single
320              (D) TOPOLOGY: linear
322      (vii) IMMEDIATE SOURCE:
323              (A) LIBRARY: xyz
324              (B) CLONE: 3C10
326       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
328       Cys Ile Leu Leu Ala Lys Asn Arg Cys
329       1               5
331 (2) INFORMATION FOR SEQ ID NO: 18:
333       (i) SEQUENCE CHARACTERISTICS:
334              (A) LENGTH: 9 amino acids
335              (B) TYPE: amino acid
336              (C) STRANDEDNESS: single
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VERIFICATION SUMMARY              DATE: 06/03/2002
PATENT APPLICATION:  US/10/044,844     TIME: 12:59:16

         Input Set : A:\EP.txt
         Output Set: N:\CRF3\06032002\J044844.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:1478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:1500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:1633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:1702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:1724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:1746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0
L:1835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:1857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:1879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:1901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:1938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0
L:2019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:2041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
L:2107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
L:2234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:2256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0
L:2278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:2300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:2322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:0
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:0
L:2366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:0
L:2386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0
L:2406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:0
L:2426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:0
L:2446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:0
L:2466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:2486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:0
L:2506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0
L:2541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:2563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0
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VERIFICATION SUMMARY   DATE: 06/03/2002
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Input Set : A:\EP.txt
Output Set: N:\CRF3\06032002\J044844.raw

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L:2585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:0
L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:2629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:0
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